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IN THE CLAIMS

Please amend Claims 13-16 as set forth below, and cancel Claim 12 without prejudice.

1. (Previously presented) An integrated thin film head, comprising:

a lower shield layer formed on a substrate;

a lower readgap layer formed on said lower shield layer;

an MR sensor layer formed on said lower readgap layer;

a lead layer joined with said MR sensor layer;

an upper lead layer formed partially in contact with said lead layer;

an upper readgap layer formed to cover said MR sensor layer, lead layer and upper lead layer; and

an upper shield layer formed on said upper readgap layer,

wherein a thickness of a part of the lead layer in contact with the upper lead layer is less than a thickness (a) of a part of the lead layer not in contact with the upper lead layer, and $\text{thickness (c)} < (\text{thickness (a)} + \text{thickness (b)})$, where thickness (c) is the total thickness of the lead layer and the upper lead layer where the position of the upper lead layer is in contact with the lead layer, and thickness (b) is

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the thickness of a portion of the upper lead layer not in contact with the lead layer.

2. (Previously presented) An integrated thin film head according to claim 1, wherein the lower shield layer formed on the substrate has a length (d), measured perpendicular to the read/write surface of the integrated thin film head, that is less than a combined length (e), measured perpendicular to the read/write surface of the integrated thin film head, of the MR sensor layer and lead layer formed on the lower readgap layer.

3. (Previously presented) An integrated thin film head according to claim 1, further comprising:

at least one of a first additional protective layer formed between said lower shield layer and said lower readgap layer, and a second additional protective layer formed between said lower readgap layer and said lead layer and upper lead layer.

4. (Previously presented) An integrated thin film head, comprising:

an undercoat layer formed on a substrate;
a lower shield layer;

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a filler material filling a stepped area of said lower shield layer;

a lower readgap layer formed on said lower shield layer and filler material;

an MR sensor layer formed at the position facing to the opposing surface of a recording medium on said lower readgap layer;

a lead layer joined with said MR sensor layer in the reverse side to the opposing surface of recording medium;

an upper lead layer formed to extend in the reverse direction in contact with a part of said lead layer;

an upper readgap layer formed to cover said MR sensor layer, lead layer and upper lead layer; and

an upper shield layer formed on said upper readgap layer, wherein a thickness of a part of said lead layer in contact with the upper readgap layer is less than a thickness (a) of a part of the lead layer in contact with the upper readgap layer, and a thickness (c) < (thickness (a) + thickness (b)), where thickness (c) is the total thickness of the lead layer and the upper lead layer where the portion of the upper lead layer is in contact with the lead layer, and thickness (b) is the thickness of a portion of the upper lead layer not in contact with the lead layer.

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5. (Currently amended) An integrated thin film head according to claim 4, wherein said lower shield layer formed on the substrate has a length (d), measured perpendicular to the read/write surface of the integrated thin film head, ~~that~~, that is less than a combined length (e) said MR sensor layer and lead layer and formed on the lower readgap layer.

6. (Previously presented) An integrated thin film head according to claim 4 further comprising:

at least one of a first additional protective layer formed between said lower shield layer and said lower readgap layer, and a second additional protective layer formed between said lower readgap layer and said lead layer and upper lead layer.

Claims 7-9 (Canceled)

10. (Previously presented) An integrated thin film head according to claim 1, further comprising:

at least one of a first additional protective layer formed between said upper shield layer and said upper readgap layer, and a second additional protective layer formed between

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said upper readgap layer and said lead layer and upper lead layer.

11. (Previously presented) An integrated thin film head according to claim 4, further comprising:

at least one of a first additional protective layer formed between said upper shield layer and said upper readgap layer, and a second additional protective layer formed between said upper readgap layer and said lead layer and upper lead layer.

12. (Canceled)

13. (Currently amended) An integrated thin film head ~~according to claim 12 head~~, comprising:

a lower shield layer formed on a substrate;
a lower readgap layer formed on said lower shield layer;
an MR sensor layer formed on said lower readgap layer;
a lead layer joined with said MR sensor layer;
an upper lead layer formed partially in contact with said lead layer;
an upper readgap layer formed to cover said MR sensor layer, lead layer and upper lead layer; and

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an upper shield layer formed on said upper readgap layer,
wherein said lead layer includes a first part including a
part in contact with said MR sensor and a second part which is
continuous with said first part and is thinner than said first
part, and said portion of said upper lead layer overlaps said
second part of said lead layer; and

wherein thickness (c) < (thickness (a) + thickness (b)),
where thickness (a) is the thickness of the first part,
thickness (b) is the thickness of a portion of the upper lead
layer not in contact with the lead layer, and thickness (c) is
the combined thickness of said portion of the upper lead layer
overlapping said second part of said lead layer and said
second part.

14. (Previously presented) An integrated thin film head
according to claim 13, further comprising:

at least one additional protective upper layer which is
formed between said upper shield layer and said lead layer and
upper lead layer, and at least one additional protective lower
layer which is formed between said lower shield layer and said
lead layer and upper lead layer,

wherein said at least one additional upper protective
layer includes one of a first additional upper protective

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layer formed between said upper shield layer and said upper readgap layer, and a second additional upper protective layer formed between said upper readgap layer and said lead layer and upper lead layer, and

wherein said at least one additional lower protective layer includes one of a first additional lower protective layer formed between said lower shield layer and said lower readgap layer, and a second additional lower protective layer formed between said lower readgap layer and said lead layer and upper lead layer.

15. (Previously presented) An integrated thin film head according to claim 14, wherein said at least one additional protective lower layer does not extend under said MR sensor layer, and said at least one upper additional protective layer does not extend over said MR sensor layer.

16. (Previously presented) An integrated thin film head according to claim 14, wherein each of said additional protective layers is formed of non-magnetic material.